

CLAIMS:

1. A method of using a sample processing device, the method comprising:
loading biological sample material into a sample processing device by a user;
5 sealing of the biological sample material in the sample processing device;
shipping the sample processing device to a processing facility after sealing the
sample processing device;
processing the biological sample material in the sample processing device at the
processing facility; and
10 communicating results of the processing to the user.
2. A method according to claim 1, further comprising loading a reagent into the
sample processing device before sealing of the sample processing device by the user.
- 15 3. A method according to either of claims 1 or 2, further comprising loading a reagent
into the sealed sample processing device at the processing facility.
4. A method according to any of claims 1-3, wherein processing the biological
sample material comprises genomic analysis of the biological sample material.
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5. A method according to any of claims 1-4, wherein processing the biological
sample material comprises polymerase chain reaction processing of the biological sample
material.
- 25 6. A method according to any of claims 1-4, wherein processing the biological
sample material comprises Sanger sequencing processing of the biological sample
material.
7. A method according to any of claims 1-4, wherein processing the biological
30 sample material comprises electrophoretic separation.

8. A method according to any of claims 1-7, further comprising archiving of the sample process device containing the biological sample material after processing the biological sample material at the processing facility and communicating the results to the user.

9. A method according to any of claims 1-7, further comprising shipping the sample process device containing the biological sample material to the user after processing the biological sample material at the processing facility.

10. A method according to any of claims 1-9, further comprising collection of the biological sample material by the user before loading the sample processing device with the biological sample material.

11. A method according to any of claims 1-9, further comprising collection of the biological sample material by the user and combining of a reagent with the biological sample material before loading the biological sample material into the sample processing device.

12. A method according to any of claims 1-11, wherein the sealing comprises placing a tamper-evident seal on the sample processing device.

13. A method according to any of claims 1-12, wherein the sealing comprises placing a seal that comprises pressure sensitive adhesive on the sample processing device.